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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/786,480B

DATE: 09/10/2002 P.6
TIME: 12:48:56

Input Set : A:\MSIB005.ST25.txt

Output Set: N:\CRF4\09102002\I786480B.raw

3 <110> APPLICANT: Goldsbrough, Andrew
 4 Colliver, Steve
 6 <120> TITLE OF INVENTION: Isoforms of Starch Branching Enzyme II (SBE-IIA and SBE-IIB)
 From Wheat
 8 <130> FILE REFERENCE: 11951.0005.PCUS00 MSIB:005
 10 <140> CURRENT APPLICATION NUMBER: 09/786,480B
 C--> 11 <141> CURRENT FILING DATE: 2002-06-25
 13 <150> PRIOR APPLICATION NUMBER: PCT/GB99/03011
 14 <151> PRIOR FILING DATE: 1999-09-09
 16 <150> PRIOR APPLICATION NUMBER: EP 98307337.0
 17 <151> PRIOR FILING DATE: 1998-09-10
 19 <160> NUMBER OF SEQ ID NOS: 55
 21 <170> SOFTWARE: PatentIn version 3.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 2307
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Triticum aestivum
 28 <220> FEATURE:
 29 <221> NAME/KEY: misc_feature
 30 <222> LOCATION: (2036)..(2270)
 31 <223> OTHER INFORMATION: N = any nucleotide
 34 <400> SEQUENCE: 1
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 39 gagaatggat actccatctg ggataaagga ttcaattcct gcttgatca agtactccgt 180
 41 gcagactcca ggagatatac catacaatgg aatatattat gatcctcccg aagaggagaa 240
 43 gtatgtattc aagcatcctc aacctaagcg accaaaatca ttgcggatat atgaaacaca 300
 45 tggtggcatg agtagcccg aaccaaagat caacacatat gcaaacttca gggatgaggt 360
 47 gcttccaaga attaaaagac ttggatacaa tgcagtgcaa ataattggaa tccaggagca 420
 49 ctcatactat ggaagctttg ggtaccatgt taccaatttc tttgcaccaa gtagccgttt 480
 51 tgggtcccca gaagatttaa aatctttgat tgatagagct cagagcttg gcttggttgt 540
 53 cctcatggat gttgttcaca gtcacgcgtc aaataatacc ttggacgggt tgaatggttt 600
 55 tgatggcacg gatacacatt acttccatgg cggttcacgg ggccatcact ggatgtggga 660
 57 ttcccgtgtg tttaactatg ggaataagga agttataagg tttctacttt ccaatgcaag 720
 59 atggtggcta gaggagtata agtttgatgg tttccgattc gatggcgaga cctccatgat 780
 61 gtatacccat catggattac aagtaacctt tacaggaagc taccatgaat attttggtt 840
 63 tgccactgat gtagatgcgg tcgtttactt gatgctgatg aatgatctaa ttcattgggtt 900
 65 ttatcctgaa gccgtaacta tcggtgaaga tgtagtgga atgcctacat ttgcccttcc 960
 67 tgttcaagtt ggtgggggtt gttttgacta tcgcttacat atggctgttg ccgacaaatg 1020
 69 gattgaactt ctcaaaggaa acgatgaagc ttgggagatg ggtaatatg tgcacacact 1080
 71 aacaaacaga aggtggccgg aaaagtgtgt tacttatgct gaaagtcacg atcaagcact 1140
 73 gggttgagac aagactattg cattctggtt gatggacaag gatattgatg atttcatggc 1200
 75 tctgaacgga ccttcgacac ctagtattga tcgtggaata gcactgcata aaatgattag 1260
 77 acttatcaca atgggtttag gaggagaggg ttatcttaac tttatgggaa atgagttcgg 1320

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83 atttcttagg tatcatggta tgcagcagtt tgatcaggcg atgcagcatc ttgaggaaaa 1500
85 atatggcttt atgacatcag accaccagta cgtatctcgg aaacatgagg aagataaggt 1560
87 gatcgtgttt gaaaaagggg acttggtatt tgtgttcaac ttccactgga gtaatagcta 1620
89 tttcgactac cgggttggct gtttaaagcc tgggaagtac aaggttgtct tagactcaga 1680
91 cgccggactc tttggtggat ttggtaggat ccatcacact gcagagcact tcacttctga 1740
93 ctgccaacat gacaacaggc cccattcgtt ctcagtgtac actcctagca gaacctgtgt 1800
95 tgtctatgct ccaatgaact aaacagcaaa gtgcagcata cgcatgcacg ctgttggtgc 1860
97 tagcactagc aagaaaaaat cgtatggtca atacaaccag gtgcaagggt taataagggt 1920
99 ttgcttcaac gagtcctgga tagacaagac aacatgatga tgtgctctgt gctcccaa 1980
W--> 101 tcccagggcg ttgtggagaa aaaatgctca tctgtgttat tttatggatc agggangaaa 2040
W--> 103 cctcccccaa anacccttt tttttttgaa agnggatag gccccggtn tctgcatntg 2100
W--> 105 gatgcctcct taaatntttg tagccataaa ccattgctag tgtcctntaa attgacagtt 2160
W--> 107 tagaatagng gttntacttt tgtattttnt ttttgacagt tagactgtat tcctcaaata 2220
W--> 109 atcgacatgt tgtttactcg aagntgagaa ataaaatcag agattgnagn aaaaaaaaaa 2280
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116 <212> TYPE: PRT
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121 <222> LOCATION: (675)..(746)
122 <223> OTHER INFORMATION: Xaa = any amino acid
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126 <221> NAME/KEY: MISC_FEATURE
127 <222> LOCATION: (675)..(746)
128 <223> OTHER INFORMATION: Xaa = any amino acid
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134 1 5 10 15
137 Trp Glu Met Phe Leu Pro Asn Asn Ala Asp Gly Ser Pro Pro Ile Pro
138 20 25 30
141 His Gly Ser Arg Val Lys Val Arg Met Asp Thr Pro Ser Gly Ile Lys
142 35 40 45
145 Asp Ser Ile Pro Ala Trp Ile Lys Tyr Ser Val Gln Thr Pro Gly Asp
146 50 55 60
149 Ile Pro Tyr Asn Gly Ile Tyr Tyr Asp Pro Pro Glu Glu Glu Lys Tyr
150 65 70 75 80
153 Val Phe Lys His Pro Gln Pro Lys Arg Pro Lys Ser Leu Arg Ile Tyr
154 85 90 95
157 Glu Thr His Val Gly Met Ser Ser Pro Glu Pro Lys Ile Asn Thr Tyr
158 100 105 110
161 Ala Asn Phe Arg Asp Glu Val Leu Pro Arg Ile Lys Arg Leu Gly Tyr
162 115 120 125
165 Asn Ala Val Gln Ile Met Ala Ile Gln Glu His Ser Tyr Tyr Gly Ser
166 130 135 140
169 Phe Gly Tyr His Val Thr Asn Phe Phe Ala Pro Ser Ser Arg Phe Gly

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Input Set : A:\MSIB005.ST25.txt

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170	145					150				155				160		
173	Ser	Pro	Glu	Asp	Leu	Lys	Ser	Leu	Ile	Asp	Arg	Ala	His	Glu	Leu	Gly
174						165				170					175	
177	Leu	Val	Val	Leu	Met	Asp	Val	Val	His	Ser	His	Ala	Ser	Asn	Asn	Thr
178						180				185					190	
181	Leu	Asp	Gly	Leu	Asn	Gly	Phe	Asp	Gly	Thr	Asp	Thr	His	Tyr	Phe	His
182						195				200					205	
185	Gly	Gly	Ser	Arg	Gly	His	His	Trp	Met	Trp	Asp	Ser	Arg	Val	Phe	Asn
186						210				215					220	
189	Tyr	Gly	Asn	Lys	Glu	Val	Ile	Arg	Phe	Leu	Leu	Ser	Asn	Ala	Arg	Trp
190	225					230				235						240
193	Trp	Leu	Glu	Glu	Tyr	Lys	Phe	Asp	Gly	Phe	Arg	Phe	Asp	Gly	Ala	Thr
194						245				250					255	
197	Ser	Met	Met	Tyr	Thr	His	His	Gly	Leu	Gln	Val	Thr	Phe	Thr	Gly	Ser
198						260				265					270	
201	Tyr	His	Glu	Tyr	Phe	Gly	Phe	Ala	Thr	Asp	Val	Asp	Ala	Val	Val	Tyr
202						275				280					285	
205	Leu	Met	Leu	Met	Asn	Asp	Leu	Ile	His	Gly	Phe	Tyr	Pro	Glu	Ala	Val
206						290				295					300	
209	Thr	Ile	Gly	Glu	Asp	Val	Ser	Gly	Met	Pro	Thr	Phe	Ala	Leu	Pro	Val
210	305					310				315						320
213	Gln	Val	Gly	Gly	Val	Gly	Phe	Asp	Tyr	Arg	Leu	His	Met	Ala	Val	Ala
214						325				330					335	
217	Asp	Lys	Trp	Ile	Glu	Leu	Leu	Lys	Gly	Asn	Asp	Glu	Ala	Trp	Glu	Met
218						340				345					350	
221	Gly	Asn	Ile	Val	His	Thr	Leu	Thr	Asn	Arg	Arg	Trp	Pro	Glu	Lys	Cys
222						355				360					365	
225	Val	Thr	Tyr	Ala	Glu	Ser	His	Asp	Gln	Ala	Leu	Val	Gly	Asp	Lys	Thr
226						370				375					380	
229	Ile	Ala	Phe	Trp	Leu	Met	Asp	Lys	Asp	Met	Tyr	Asp	Phe	Met	Ala	Leu
230	385					390				395						400
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234						405				410					415	
237	Met	Ile	Arg	Leu	Ile	Thr	Met	Gly	Leu	Gly	Gly	Glu	Gly	Tyr	Leu	Asn
238						420				425					430	
241	Phe	Met	Gly	Asn	Glu	Phe	Gly	His	Pro	Glu	Trp	Ile	Asp	Phe	Pro	Arg
242						435				440					445	
245	Gly	Pro	Gln	Val	Leu	Pro	Thr	Gly	Lys	Phe	Ile	Pro	Gly	Asn	Asn	Asn
246						450				455					460	
249	Ser	Tyr	Asp	Lys	Cys	Arg	Arg	Arg	Phe	Asp	Gln	Gly	Asp	Ala	Glu	Phe
250	465					470				475						480
253	Leu	Arg	Tyr	His	Gly	Met	Gln	Gln	Phe	Asp	Gln	Ala	Met	Gln	His	Leu
254						485				490					495	
257	Glu	Glu	Lys	Tyr	Gly	Phe	Met	Thr	Ser	Asp	His	Gln	Tyr	Val	Ser	Arg
258						500				505					510	
261	Lys	His	Glu	Glu	Asp	Lys	Val	Ile	Val	Phe	Glu	Lys	Gly	Asp	Leu	Val
262						515				520					525	
265	Phe	Val	Phe	Asn	Phe	His	Trp	Ser	Asn	Ser	Tyr	Phe	Asp	Tyr	Arg	Val
266						530				535					540	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/786,480B

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Input Set : A:\MSIB005.ST25.txt
Output Set: N:\CRF4\09102002\I786480B.raw

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270 545                    550                    555                    560
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277 Thr Ser Asp Cys Gln His Asp Asn Arg Pro His Ser Phe Ser Val Tyr
278                    580                    585                    590
281 Thr Pro Ser Arg Thr Cys Val Val Tyr Ala Pro Met Asn Thr Ala Lys
282                    595                    600                    605
285 Cys Ser Ile Arg Met His Ala Val Val Ala Ser Thr Ser Lys Lys Lys
286        610                    615                    620
289 Ser Tyr Gly Gln Tyr Asn Gln Val Gln Gly Leu Ile Arg Val Cys Phe
290 625                    630                    635                    640
293 Asn Glu Ser Trp Ile Asp Lys Thr Thr Cys Ala Leu Cys Ser Gln Ile
294                    645                    650                    655
297 Pro Arg Ala Leu Trp Arg Lys Asn Ala His Leu Cys Tyr Phe Met Asp
298                    660                    665                    670
W--> 301 Gln Gly Xaa Asn Leu Pro Gln Xaa Pro Leu Phe Phe Leu Lys Gly Gly
302                    675                    680                    685
W--> 305 Ala Pro Gly Xaa Cys Xaa Trp Met Pro Pro Xaa Phe Val Ala Ile Asn
306        690                    695                    700
W--> 309 His Cys Cys Pro Xaa Asn Gln Phe Arg Ile Xaa Val Xaa Leu Leu Tyr
310 705                    710                    715                    720
W--> 313 Phe Xaa Phe Asp Ser Thr Val Phe Leu Lys Ser Thr Cys Cys Leu Leu
314                    725                    730                    735
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318                    740                    745                    750
321 Lys Lys Lys Lys Lys Asn
322        755
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326 <211> LENGTH: 1036
327 <212> TYPE: DNA
328 <213> ORGANISM: Triticum aestivum
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
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333 <223> OTHER INFORMATION: N = any nucleotide
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341 atgggaaatg agttcgggca tcttgaatgg atagactttc caagaggccc acaagtactt        180
343 ccaagtggta agttcatccc aggaaacagc aacagttacg acaaatgccg tcgaagattt        240
345 gacctgggtg atgcagaatt tcttaggtat catggtatgc agcagtttga tcaggcaatg        300
347 cagcatcttg aggaaaaata tggttttatg acatcagacc accagtacgt atctcggaaa        360
349 cacgaggaag ataaggtgat cgtgtttgaa aaaggggact tggatattgt gttcaacttc        420
351 cactggagta atagctatct cgactaccgg gtcggctgtt taaagcctgg gaagtacaag        480
353 gtggtcttag actcagacgc tggactcttt ggtggatttg gtaggatcca tcacactgca        540
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357 cctagcagaa cctgtgttgt ctatgctcca atgaactaac agcaaggtgc agcatacgcg        660
359 tgcgcgctgt tgttgctagt agcaagaaaa atcgtagcgt caatacagcc aggtgcaagg        720

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RAW SEQUENCE LISTING

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Input Set : A:\MSIB005.ST25.txt

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361 tttaataagg atttttttgc tcaacgagtc ctggatagac aagacaacat gatgttggtg 780
363 cgtgtgctcc caatccccag ggcgttggtga agaaaacatg ctcatctgtg ttatgatttt 840
365 atggatcagc gacgaaactt cccccaata cccatgcctc cttaaactct tgtggccgta 900
367 aaccattgct agtgtcctct aaattgacag ttttagcatag aggttttact tttgtatctt 960
369 ctttttgaca gtttagacttt attcctcaaa taatcgacca gtcgtttact cgaaaaaaa 1020
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377 <213> ORGANISM: Triticum aestivum
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380 <221> NAME/KEY: misc_feature
381 <222> LOCATION: (201)..(857)
382 <223> OTHER INFORMATION: N = any nucleotide
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390 atgggaaatg agttcgggca tcctgaatgg atagactttc caagaggccc acaagtactt 180
W--> 392 ccaactggta agttcatccc nngaaacaac aacagttacg acaaatgccg tcgaaaattt 240
394 gacctgggtg atgcagaatt tcttaggtat catggtatgc agcagtttga tcaggcgatg 300
396 cagcatcttg aggaaaaata tggctttatg acatcagacc accagtacgt atctcggaaa 360
398 catgaggaag ataaggtgat cgtgtttgaa aaaggggact tggatattgt gttcaacttc 420
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402 gttgtcttag actcagacgc cggactcttt ggtggatttg gtaggatcca tcacactgca 540
404 gagcacttca cttctgactg ccaacatgac aacaggcccc attcgttctc agtgtacact 600
406 cctagcagaa cctgtgttgt ctatgctcca atgaactaaa cagcaaagtg cagcatacgc 660
408 atgcacgctg ttgttgctag cactagcaag aaaaaatcgt atggtcaata caaccagggtg 720
410 caaggtttaa taagggtttt tgcttcaacg agtcctggat agacaagaca acatgatgat 780
W--> 412 gtgctctgtg ctcccaaatt cccaggcgct tgnngngaaa acatgctcat ctgtgttata 840
W--> 414 attttatgga tcagnngnga aacctcccc aaatacccat gcctccttaa acttttgttg 900
416 tcctaaacca tggctactat cctctaaatt ggcagtttag catagagggt ttacttttgt 960
418 aaattttttt tgacagttaa tagactctat tcctcaaata attgacatgt cctttacaag 1020
420 aagatgagaa ataaaatcag ggattgaaga atcccaaaag ctaaaaaaa aaaaaaaaaa 1080
422 aaaaaaa 1087
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426 <211> LENGTH: 1120
427 <212> TYPE: DNA
428 <213> ORGANISM: Triticum aestivum
430 <220> FEATURE:
431 <221> NAME/KEY: misc_feature
432 <222> LOCATION: (802)..(1083)
433 <223> OTHER INFORMATION: N = any nucleotide
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441 atgggaaatg agttcgggca tcctgaatgg atagactttc caagaggccc acaagtactt 180
443 ccaagtggta agttcatccc aggaacaac aacagttacg acaaatgccg tcgaagattt 240
445 gacctgggtg atgcagaatt tcttaggtat catggtatgc agcagtttga tcaggcaatg 300
447 cagcatcttg aggaaaaata tggttttatg acatcagacc accagtacgt ttctcggaaa 360

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2036,2052,2074,2090,2098,2116,2147,2169,2174,2189,2244,2267
Seq#:1; N Pos. 2270
Seq#:2; Xaa Pos. 675,680,692,694,699,709,715,717,722,738,745,746
Seq#:3; N Pos. 77,1036
Seq#:4; N Pos. 201,202,813,815,855,857
Seq#:5; N Pos. 802,849,865,887,903,911,929,960,982,987,1002,1057,1080,1083
Seq#:6; N Pos. 763
Seq#:9; N Pos. 169,216,232,254,270,278,296,327,349,354,369,424,447
Seq#:10; N Pos. 179,181,221,223
Seq#:54; Xaa Pos. 6,21,26,30,31,40,41,45,59,61,62,63,64,66,69,70,71,74,75
Seq#:54; Xaa Pos. 87,90,96,97,98,100,101,105,129,130,132,142,143,159,368
Seq#:54; Xaa Pos. 457,475,506,511,558,559,701,702,715,723,724,727,734,735
Seq#:54; Xaa Pos. 741,758,760,763,767,769,770,771,772,773,775,777,778,780
Seq#:54; Xaa Pos. 781,782,783,784,785,788,790,792,793,794,795,796,797,798
Seq#:54; Xaa Pos. 799,801,802,803,804,805,806,808,809,810,812,814,816,817
Seq#:54; Xaa Pos. 818,821,822,823,824,825,826,827,828,829,830,832,833,834
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Seq#:54; Xaa Pos. 872,873,874,875,876,877,878,879,880

VERIFICATION SUMMARY
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Input Set : A:\MSIB005.ST25.txt
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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1980
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2040
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2100
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2160
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:2220
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:672
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:688
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:704
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:720
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:736
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60
L:371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1020
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:180
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:780
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:840
L:463 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:780
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:840
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L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:960
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:1020
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:1080
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L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:180
L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:300
L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:360
L:633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420
L:652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:120
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:180
L:4549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:4553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:16
L:4557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:32
L:4561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:48
L:4565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:64
L:4569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:80
L:4573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:96
L:4581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:128
L:4585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:144
L:4637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:352
L:4661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:448
L:4665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:464
L:4673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:496
L:4685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:544
L:4721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:688
L:4725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:704
L:4729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:720

VERIFICATION SUMMARY

DATE: 09/10/2002

PATENT APPLICATION: US/09/786,480B

TIME: 12:48:57

Input Set : A:\MSIB005.ST25.txt

Output Set: N:\CRF4\09102002\I786480B.raw

L:4733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:736
L:4737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:752
L:4741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:768